What is claimed is:

 A method for coding transform coefficients in picture and/or video coders and decoders

5

10

15

wherein

for blocks of (video) pictures containing significant transform coefficients, the coding of transform coefficients takes place in such a way that, for each block,

- in a scan process, the positions of significant transform coefficients in the block and subsequently,
- in a reverse scan order starting with the last significant transform coefficients within the block the values (levels) of the significant transform coefficients

20

are determined and coded.

- 2. The method according to claim 1,
- 25 wherein

each significant transform coefficient of the block other than the last transform coefficient of the block is characterized by a one-bit symbol.

30

3. The method according to claim 1,

wherein

for each significant transform coefficient, the sign is indicated by a one-bit symbol (SIGN) and the magnitude is indicated by a binary-coded symbol (ABS).

4. The method according to claim 1,

wherein

the magnitude is indicated by a symbol (ABS) in unary binarization or by a symbol (ABS) having a prefix part and a suffix part, wherein the prefix part consists of ones and the suffix part is coded in a 0th order expgolomb code.

10

5. The method according to claim 1,

wherein

- blocks containing significant transform coefficients are characterized by a one-bit symbol CBP4 in connection with further syntax elements, such as, for example, CBP or macro block mode.
- 20 6. The method according to claim 1,

wherein

- by transferring a one-bit symbol (SIG) for each 25 coefficient of a block and a one-bit symbol (LAST) for significant coefficient a of block, significance mapping is coded, wherein the transfer place in a scan order, (SIG) serves for identifying significant coefficients and (LAST) 30 indicates whether there are further significant transform coefficients in the block.
 - 7. The method according to claim 6,
- 35 wherein

modeling

- for the one-bit symbol CBP4,
- for coding the significance mapping and/or
- for coding the coefficient magnitudes
- 5 takes place in a context-dependent way.
 - 8. The method according to claim 6,

wherein

10

no significance information (SIG, LAST) is transferred for the last scan position of a block.

9. The method according to claim 1,

15

20

25

30

wherein

block types of transform coefficients having comparable statistics are summarized to block categories.

10. An arrangement having at least one processor and/or chip formed such that a method for coding transform coefficients in picture and/or video coders and decoders can be performed, wherein

for blocks of (video) pictures containing significant transform coefficients, the coding of transform coefficients takes place in such a way that, for each block,

- in a scan process, the positions of significant transform coefficients in the block and subsequently,
- of the values (levels) of the significant transform coefficients within the block the values (levels) of the significant transform coefficients

are determined and coded.

- 11. A computer program enabling a computer, after having been loaded into the memory of the computer, to perform a method for coding transform coefficients in picture and/or video coders and decoders, wherein
- for blocks of (video) pictures containing significant transform coefficients, the coding of transform coefficients takes place in such a way that, for each block,
- in a scan process, the positions of significant transform coefficients in the block and subsequently,
 - in a reverse scan order starting with the last significant transform coefficients within the block the values (levels) of the significant transform coefficients

are determined and coded.

20

- 12. A computer-readable storage medium on which a program
 25 is stored, enabling a computer, after having been loaded into the memory of the computer, to perform a method for coding transform coefficients in picture and/or video coders and decoders, wherein
- for blocks of (video) pictures containing significant transform coefficients, the coding of transform coefficients takes place in such a way that, for each block,
- in a scan process, the positions of significant transform coefficients in the block and subsequently,

in a reverse scan order - starting with the last significant transform coefficients within the block the values (levels) of the significant transform coefficients

5

are determined and coded.

13. A method wherein a computer program according to claim
11 is downloaded from an electronic data network, such
10 as, for example, the Internet, to data processing
means connected to the data network.